

SEQUENCE LISTING

<110> SUNTORY LIMITED
<120> Inhibitor and Activator of Coupling Factor-6 and Antigen thereto
<130> YCT-515
<140> PCT/JP00/5210
<141> 2000-08-03
<150> JPA 264687/99
<151> 1999-09-17
<160> 24

<210> 1
<211> 76
<212> PRT
<213> Human
<400> 1

Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu

1 5 10

Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser

15 20

Lys Arg Gln Thr Ser Gly Gly Pro Val Asp

25 30

Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu

35 40

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe

45 50

Gly Asn Ala Asp Met Asn Thr Phe Pro Thr

	55	60
Phe Lys Phe Glu Asp Pro Lys Phe Glu Val		
	65	70
Leu Glu Lys Pro Gln Ala		
	75	

<210> 2
 <211> 76
 <212> PRT
 ,<213> Rat
 <400> 2

Asn Lys Glu Leu Asp Pro Val Gln Lys Leu		
1	5	10
Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala		
	15	20
Lys Arg Leu Ala Ser Gly Gly Pro Val Asp		
	25	30
Thr Gly Pro Glu Tyr Gln Gln Glu Val Asp		
	35	40
Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr		
	45	50
Gly Lys Gly Glu Met Asp Lys Phe Pro Thr		
	55	60
Phe Asn Phe Glu Asp Pro Lys Phe Glu Val		
	65	70
Leu Asp Lys Pro Gln Ser		
	75	

<210> 3
 <211> 5
 <212> PRT
 <213> Unknown
 <220>
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 <223> Enterokinase recognition site
 <400> 3

Asp Asp Asp Asp Lys

<210> 4
 <211> 139
 <212> PRT
 <213> E. coli
 <400> 4

Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
 1 5 10 15
 Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro
 20 25 30
 Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser
 35 40 45
 Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe Pro
 50 55 60
 Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Glu Ser Asp Leu Pro Glu
 65 70 75 80
 Ala Asp Thr Val Val Val Pro Ser Asn Trp Gln Met His Gly Tyr Asp

	85	90	95
Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro Ile Thr Val Asn Pro Pro			
	100	105	110
Phe Val Pro Thr Glu Asn Pro Thr Gly Ser Tyr Ser Leu Thr Phe Asn			
	115	120	125
Val Asp Glu Ser Trp Leu Gln Glu Gly Gln Thr			
130	135		
<210>	5		
<211>	97		
<212>	PRT		
<213>	E. coli		
<400>	5		
Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp			
1	5	10	15
Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro			
	20	25	30
Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp Arg Pro Ser			
	35	40	45
Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe Ala Trp Phe Pro			
	50	55	60
Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp Ser Asp Leu Pro Glu			
65	70	75	80
Ala Asp Thr Val Val Val Pro Ser Asn Trp Gln Met His Gly Tyr Asp			
	85	90	95
Ala			

<210> 6
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>
<223> Primer used in PCR method
<400> 6

atgactgttc agaggatctt cag

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence
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<222>
<223> Primer used in PCR method
<400> 7

gtcgactcag gactgggggtt tgtcgag

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<221>

<222>

<223> Primer used in PCR method

<400> 8

atgattcttc agaggctctt cag

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

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<222>

<223> Primer used in PCR method

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gtcgactcag gcctgggggtt tttcgatg

<210> 10

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Gene coding for enterokinase recognition site and Eco RI recognition site

<400> 10

gaattcgacg atgacgataa gaataaggaa cttgatcctg tacag

<210> 11

<211> 46
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221>
 <222>
 <223> Gene coding for enterokinase recognition site and Eco RI recognition site
 <400> 11

gaattcgacg atgacgataa gaataaggaa cttgataccta tacaga

<210> 12
 <211> 20
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 <213> rat
 <400> 12

Cys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu

1 5 10 15

Asp Lys Pro Gln Ser

20

<210> 13
 <211> 20
 <212> PRT
 <213> rat
 <400> 13

Tyr Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu

1 5 10 15

Asp Lys Pro Gln Ser

20

<210> 14
 <211> 19
 <212> PRT
 <213> human
 <400> 14

Cys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln

1 5 10 15

Thr Ser Gly Gly

<210> 15
 <211> 18
 <212> PRT
 <213> human
 <400> 15

Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr

1 5 10 15

Ser Gly Gly

<210> 16
 <211> 39
 <212> PRT
 <213> rat
 <400> 16

Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile

1 5 10 15

Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp

20 25 30

Thr Gly Pro Glu Tyr Gln Gln Glu Val

35

<210> 17

<211> 16

<212> PRT

<213> rat

<400> 17

Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu

1

5

10

15

Met

<210> 18

<211> 9

<212> PRT

<213> rat

<400> 18

Asp Lys Phe Pro Thr Phe Asn Phe Glu

1

5

<210> 19

<211> 7

<212> PRT

<213> rat

<400> 19

Asp Pro Lys Phe Glu Val Leu

1

5

<210> 20
<211> 5
<212> PRT
<213> rat
<400> 20

Asp Lys Pro Gln Ser

1 5

<210> 21
<211> 4
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<223> Factor Xa recognition site
<400> 21

Ile Glu Gly Lys

<210> 22
<211> 31
<212> DNA
<213> Artificial Sequence
<220>
<221>
<222>

<223> Primer for PCR method

<400> 22

gatcgagggacgtaataaggaacttgatcct

<210> 23

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<221>

<222>

<223> Primer for PCR method

<400> 23

gtcgacttaggactggggtttgtcga

<210> 24

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221>

<222>

<223> Factor Xa recognition site containig peptide

<400> 24

Glu Phe Gly Leu Ile Glu Gly Lys

1

5

<110> Asanai, Tomohiro
 Magata, Koji
 <120> Inhibitor and Activator of Coupling Factor-6 and Antigen thereto
 <130> 46220
 <140> US 09/831,951
 <141> 2001-05-16
 <151> JPA 264687/99
 <151> 1999-09-17
 <160> 24

<210> 1
 <211> 76
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 <213> Human
 <400> 1
 Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu
 1 5 10
 Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser
 15 20
 Lys Arg Gln Thr Ser Gly Gly Pro Val Asp
 25 30
 Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
 35 40
 Arg Glu Leu Phe Lys Leu Lys Gln Met Phe
 45 50
 Gly Asn Ala Asp Met Asn Thr Phe Pro Thr
 55 60
 Phe Lys Phe Glu Asp Pro Lys Phe Glu Val
 65 70
 Leu Glu Lys Pro Gln Ala
 75

<210> 2
 <211> 76
 <212> PRT
 <213> Rat
 <400> 2
 Asn Lys Glu Leu Asp Pro Val Gln Lys Leu
 1 5 10
 Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala
 15 20
 Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
 25 30
 Thr Gly Pro Glu Tyr Gln Gln Glu Val Asp
 35 40
 Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr
 45 50
 Gly Lys Gly Glu Met Asp Lys Phe Pro Thr
 55 60
 Phe Asn Phe Glu Asp Pro Lys Phe Glu Val
 65 70
 Leu Asp Lys Pro Gln Ser
 75

<210> 3
 <211> 5
 <212> PRT
 <213> Unknown

<221>
 <222>
 <223> Enterokinase recognition site
 <400> 3
 Asp Asp Asp Asp Lys

<210> 4
 <211> 139
 <212> PRT
 <213> E. coli
 <400> 4
 Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 1 5 10 15
 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
 20 25 30
 Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
 35 40 45
 Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
 50 55 60
 Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Gln
 65 70 75
 Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
 80 85 90
 Gln Met His Gly Tyr Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr
 95 100 105
 Pro Ile Thr Val Asn Pro Pro Phe Val Pro Thr Glu Asn Pro Thr
 110 115 120
 Gly Ser Tyr Ser Leu Thr Phe Asn Val Asp Glu Ser Trp Leu Gln
 125 130 135
 Glu Gly Gln Thr

<210> 5
 <211> 97
 <212> PRT
 <213> E. coli
 <400> 5
 Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 1 5 10 15
 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
 20 25 30
 Pro Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp
 35 40 45
 Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
 50 55 60
 Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp
 65 70 75
 Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
 80 85 90
 Gln Met His Gly Tyr Asp Ala
 95

<210> 6
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221>

•2222•
•2222• Primer used in PCR method
•2222• 6
•2222• agatgtgttc agaggatctt cag

•2222• 7
•2222• 27
•2222• DNA
•2222• Artificial Sequence

•2222•
•2222•
•2222•
•2222• Primer used in PCR method
•2222•
•2222• gttgactcag gactgggggtt tgtcgag

•2222•
•2222• 13
•2222• DNA
•2222• Artificial Sequence
•2222•
•2222•
•2222•
•2222• Primer used in PCR method
•2222•
•2222• atgattcttc agaggctctt cag

•2222•
•2222• 28
•2222• DNA
•2222• Artificial Sequence
•2222•
•2222•
•2222•
•2222• Primer used in PCR method
•2222•
•2222• gttgactcag gactgggggtt ttctgatg

•2222• 10
•2222• 45
•2222• DNA
•2222• Artificial Sequence
•2222•
•2222•
•2222•
•2222• Gene coding for enterokinase recognition site and Eco RI recognition
site
•2222• 10
•2222• gatttcgag atgacgataa gaataaggaa cttgatcctg tacag

•2222• 11
•2222• 46
•2222• DNA
•2222• Artificial Sequence
•2222•
•2222•

<21>

<21> Gene coding for enterokinase recognition site and Eco RI recognition site

<4> 11

gaattcgagc atgacgataa gaataaggaa ctgcatccta tacaga

<21> 12

<21> 10

<21> PRT

<21> rat

<40> 12

Lys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
1 5 10 15

Asp Lys Pro Gln Ser
20

<21> 13

<21> 2:

<21> PRT

<21> rat

<40> 1:

Lys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
1 5 10 15

Asp Lys Pro Gln Ser
20

<21> 14

<21> 1:

<21> PRT

<21> human

<40> 14

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln
1 5 10 15

Thr Ser Gly Gly

<21> 1:

<21> 1:

<21> PRT

<21> human

<40> 11

Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
1 5 10 15

Ser Gly Gly

<21> 1:

<21> 3:

<21> PRT

<21> rat

<40> 16

Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile
1 5 10 15

Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
20 25 30

Thr Gly Pro Glu Tyr Gln Gln Glu Val
35

<210> 17
 <211> 16
 <212> PRT
 <213> rat
 <400> 17

Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu
 1 5 10 15
 Met

<210> 18
 <211> 19
 <212> PRT
 <213> rat
 <400> 18

Asp Lys Phe Pro Thr Phe Asn Phe Glu
 1 5

<210> 19
 <211> 7
 <212> PRT
 <213> rat
 <400> 19

Asp Pro Lys Phe Glu Val Leu
 1 5

<210> 20
 <211> 5
 <212> PRT
 <213> rat
 <400> 20

Asp Lys Pro Gln Ser
 1 5

<210> 21
 <211> 1
 <212> PRT
 <213> Artificial Sequence
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<215>
 <216>
 <217> Factor Xa recognition site
 <400> 21
 The Glu Gly Lys

<210> 22
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <214>

<215>
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 <217> Primer for PCR method
 <400> 22
 gatcagggagcgttaataaggaacttgatcct

<210> 13
 <211> 16
 <212> DNA
 <213> Artificial Sequence
 <220>
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 <222>
 <223> Primer for PCR method
 <400> 23
 gtagcttaggactgggtttagaga

<210> 14
 <211> 8
 <212> FRT
 <213> Artificial Sequence
 <220>
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 <222>
 <223> Factor Xa recognition site containing peptide
 <400> 24
 Glu Phe Gly Leu Ile Glu Gly Lys
 1 5